

**Site-Specific****Resident Equation Inputs for Settled Dust - Secular Equilibrium**

\* Inputted values different from Resident defaults are highlighted.

Variable	Resident Settled Dust Default Value	Form-input Value
ED <sub>res</sub> (exposure duration - resident) yr	26	26
ED <sub>res,a</sub> (exposure duration - resident adult) yr	20	20
ED <sub>res,c</sub> (exposure duration - resident child) yr	6	6
EF <sub>res</sub> (exposure frequency - resident) day/yr	350	350
EF <sub>res,a</sub> (exposure frequency - resident adult) day/yr	350	350
EF <sub>res,c</sub> (exposure frequency - resident child) day/yr	350	350
ET <sub>res</sub> (exposure time) hr/day	24	24
ET <sub>res,a,h</sub> (exposure time - resident adult hard surface) hr/day	6	6
ET <sub>res,c,h</sub> (exposure time - resident child hard surface) hr/day	6	6
ET <sub>res,a,s</sub> (exposure time - resident adult soft surface) hr/day	10	10
ET <sub>res,c,s</sub> (exposure time - resident child soft surface) hr/day	10	10
F <sub>AM</sub> (area and material factor) unitless	1	1
F <sub>i</sub> (fraction of time spent in compartment) unitless	1	1
F <sub>in</sub> (fraction time spent indoors) unitless	1	1
F <sub>OFF-SET</sub> (off-set factor) unitless	1	1
FQ <sub>a</sub> (frequency of hand to mouth - adult) event/hr	3	3
FQ <sub>c</sub> (frequency of hand to mouth - child) event/hr	17	17
FTSS <sub>h</sub> (fraction transferred surface to skin - hard surface) unitless	0.5	0.5
FTSS <sub>s</sub> (fraction transferred surface to skin - soft surface) unitless	0.1	0.1
IFD <sub>age,ad</sub> (age-adjusted dust ingestion rate - resident) cm <sup>-2</sup>	3200400	3200400
k (dissipation rate constant) yr <sup>-1</sup>	0.0	0.0
SA <sub>res,a</sub> (surface area of fingers - resident adult) cm <sup>-2</sup>	49	49
SA <sub>res,c</sub> (surface area of fingers - resident child) cm <sup>-2</sup>	16	16
SE (saliva extraction factor) unitless	0.5	0.5
t <sub>res</sub> (time - resident) yr	26	26
TR (target cancer risk) unitless	1.0E-06	1.0E-06

**Site-Specific****Resident Building PRGs for Settled Dust - Secular Equilibrium**

Radionuclide	External			
	Ingestion BPRG	Exposure BPRG	Dust BPRG	Dust BPRG
	TR=1E-06 (pCi/cm <sup>2</sup> )	TR=1E-06 (pCi/cm <sup>2</sup> )	TR=1E-06 (pCi/cm <sup>2</sup> )	TR=1E-06 (mg/cm <sup>2</sup> )
*Secular Equilibrium BPRG for Am-241	1.96E-04	7.95E-02	<b>1.96E-04</b>	1.60E+03
*Secular Equilibrium BPRG for Co-60	8.20E-03	1.84E-02	<b>5.67E-03</b>	6.40E+09
*Secular Equilibrium BPRG for Cs-137	7.34E-03	7.92E-02	<b>6.72E-03</b>	6.35E+08
*Secular Equilibrium BPRG for Eu-152	5.17E-03	3.91E-02	<b>4.57E-03</b>	5.23E-06
*Secular Equilibrium BPRG for Eu-154	1.23E-02	3.65E-02	<b>9.21E-03</b>	2.49E+09
*Secular Equilibrium BPRG for H-3	3.48E+00	-	<b>3.48E+00</b>	3.36E+13
*Secular Equilibrium BPRG for Pu-239	1.84E-04	6.98E-02	<b>1.84E-04</b>	4.54E+00
*Secular Equilibrium BPRG for Ra-226	5.49E-05	2.64E-02	<b>5.48E-05</b>	4.41E+05
*Secular Equilibrium BPRG for Sr-90	2.31E-03	2.35E+00	<b>2.31E-03</b>	4.99E+08
*Secular Equilibrium BPRG for Th-232	1.08E-04	2.01E-02	<b>1.07E-04</b>	1.86E-01
*Secular Equilibrium BPRG for U-235	2.13E-04	6.98E-02	<b>2.12E-04</b>	4.54E+00

**Site-Specific**  
**Resident Risk for Settled Dust - Secular Equilibrium**

Radionuclide	External		
	Ingestion Risk	Exposure Risk	Total Risk
*Secular Equilibrium Risk for Am-241	2.30E-03	5.67E-06	<b>2.30E-03</b>
*Secular Equilibrium Risk for Co-60	2.75E-03	1.23E-03	<b>3.97E-03</b>
*Secular Equilibrium Risk for Cs-137	3.07E-03	2.84E-04	<b>3.35E-03</b>
*Secular Equilibrium Risk for Eu-152	4.35E-03	5.76E-04	<b>4.93E-03</b>
*Secular Equilibrium Risk for Eu-154	1.83E-03	6.16E-04	<b>2.45E-03</b>
*Secular Equilibrium Risk for H-3	6.48E-06	-	<b>6.48E-06</b>
*Secular Equilibrium Risk for Pu-239	2.45E-03	6.46E-06	<b>2.45E-03</b>
*Secular Equilibrium Risk for Ra-226	8.21E-03	1.71E-05	<b>8.23E-03</b>
*Secular Equilibrium Risk for Sr-90	1.95E-03	1.92E-06	<b>1.95E-03</b>
*Secular Equilibrium Risk for Th-232	1.53E-03	8.18E-06	<b>1.53E-03</b>
*Secular Equilibrium Risk for U-235	1.03E-02	3.15E-05	<b>1.03E-02</b>
*Total Risk	3.80E-02	2.77E-03	<b>4.07E-02</b>